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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: [year=2009; month=4; day=28; hr=16; min=4; sec=10; ms=231; ]

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Application No: 09631613 Version No: 5.0

**Input Set:****Output Set:**

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**Finished:** 2009-04-17 15:25:12.475  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 875 ms  
**Total Warnings:** 62  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 89  
**Actual SeqID Count:** 89

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**Input Set:**

**Output Set:**

**Started:** 2009-04-17 15:25:09.600  
**Finished:** 2009-04-17 15:25:12.475  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 875 ms  
**Total Warnings:** 62  
**Total Errors:** 0  
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Error code	Error Description
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# SEQUENCE LISTING

<110> Hogrefe, Holly  
Hansen, Connie J

<120> Polymerase Enhancing Factor (PEF) Extracts, PEF Protein  
Complexes, Isolated PEF Proteins, and Methods for Purifying and  
Identifying Them

<130> 10070431-07-US

<140> 09631613

<141> 2000-08-04

<150> US 08/957,709

<151> 1997-10-24

<150> US 08/822,774

<151> 1997-03-21

<160> 89

<170> PatentIn version 3.4

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Xaa Xaa Xaa  
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Lys

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Asn Gln Val Val Leu Ile Gly Arg  
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Arg Lys

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Ile Glu

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caycaygaha arythatata cgc 23

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attaggcatg gggccgaagt tcatgcagtg atgagtgagg cagccacca gataattcat 180

ccttatgcat ggaatttgcc cacgggaaat ccagtcataa ctgagatcac tggatttatc 240

gagcatgttg agttagcagg ggaacatgag aataaagcag atttaatttt ggtttgcct 300

gccactgcc aacacaattag taagattgca tgtggaatag atgatactcc agtaactaca 360

gtcgtgacca cagcatttcc ccacattcca attatgatag cccagcaat gcatgagaca 420

atgtacaggc atcccatagt aaggggagaac attgaaaggt taaagaagct tggcgttgag 480

tttataggac caagaattga ggagggaaaag gcaaaaagttg caagcattga tgaaatagtt 540

tacagagtta ttaaaaacgt ccacaaaaaa acattggaag ggaagagagt cctagtaacg 600

gcgggagcaa caagagagta catagatcca ataagattca taacaaatgc cagcagtgga 660

aaaatgggag tagcgttggc tgaagaagca gatttttagag gagctgttac cctcataaga 720

acaaagggaa gtgtaaaggc ttttagaatc agaaaaatca aattgaaggt tgagacagtg 780

gaagaaatgc tttcagcgat tgaaaatgag ttgaggagta aaaagtatga cgtagttatt 840

atggcagctg ctgtaagcga ttttaggcc aaaaattaaag cagagggaaa aattaaaagc 900

ggaagatcaa taacgataga gctcgttccn nnaatccca aaatcattga tagaataaag 960

gaaattcaac caaatgtctt tcttggttga tttaaagcag aaacttcaa agaaaagctt 1020

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ttggaagcct ttggaagcga ggaaaaccaa gtagtattaa ttggcagaga tttcacaaaa 1140

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20 25 30

Asp Val Lys Ala Cys Glu Gly Leu Ile Arg His Gly Ala Glu Val His  
35 40 45

Ala Val Met Ser Glu Ala Ala Thr Lys Ile Ile His Pro Tyr Ala Trp  
50 55 60

Asn Leu Pro Thr Gly Asn Pro Val Ile Thr Glu Ile Thr Gly Phe Ile  
65 70 75 80

Glu His Val Glu Leu Ala Gly Glu His Glu Asn Lys Ala Asp Leu Ile  
85 90 95

Leu Val Cys Pro Ala Thr Ala Asn Thr Ile Ser Lys Ile Ala Cys Gly  
100 105 110

Ile Asp Asp Thr Pro Val Thr Thr Val Val Thr Thr Ala Phe Pro His  
115 120 125

Ile Pro Ile Met Ile Ala Pro Ala Met His Glu Thr Met Tyr Arg His  
130 135 140

Pro Ile Val Arg Glu Asn Ile Glu Arg Leu Lys Lys Leu Gly Val Glu  
145 150 155 160

Phe Ile Gly Pro Arg Ile Glu Glu Gly Arg Ala Lys Val Ala Ser Ile

165	170	175
Asp Glu Ile Val Tyr Arg Val Ile Lys Lys Leu His Lys Lys Thr Leu		
180	185	190
Glu Gly Lys Arg Val Leu Val Thr Ala Gly Ala Thr Arg Glu Tyr Ile		
195	200	205
Asp Pro Ile Arg Phe Ile Thr Asn Ala Ser Ser Gly Lys Met Gly Val		
210	215	220
Ala Leu Ala Glu Glu Ala Asp Phe Arg Gly Ala Val Thr Leu Ile Arg		
225	230	235
Thr Lys Gly Ser Val Lys Ala Phe Arg Ile Arg Lys Ile Lys Leu Lys		
245	250	255
Val Glu Thr Val Glu Glu Met Leu Ser Ala Ile Glu Asn Glu Leu Arg		
260	265	270
Ser Lys Lys Tyr Asp Val Val Ile Met Ala Ala Ala Val Ser Asp Phe		
275	280	285
Arg Pro Lys Ile Lys Ala Glu Gly Lys Ile Lys Ser Gly Arg Ser Ile		
290	295	300
Thr Ile Glu Leu Val Pro Xaa Asn Pro Lys Ile Ile Asp Arg Ile Lys		
305	310	315
Glu Ile Gln Pro Asn Val Phe Leu Val Gly Phe Lys Ala Glu Thr Ser		
325	330	335
Lys Glu Lys Leu Ile Glu Glu Gly Lys Arg Gln Ile Glu Arg Ala Lys		
340	345	350
Ala Asp Leu Val Val Gly Asn Thr Leu Glu Ala Phe Gly Ser Glu Glu		
355	360	365
Asn Gln Val Val Leu Ile Gly Arg Asp Phe Thr Lys Glu Leu Pro Lys		
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 Arg Lys Glu Lys Ser Xaa Phe Leu Gln Gly Asn  
 20 25

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